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- 1. A light-transmitting module, comprising:
- a light-emitting module including a Peltier device and a laser diode mounted on said Peltier device, said Peltier device controlling a temperature of said laser diode;
  - a substrate for installing a plurality of electronic elements;
- a heater disposed so as to heat up said light-emitting module and said substrate;
- a housing for receiving said light-emitting module, said substrate and said heater therein.
- 2. The light-transmitting module according to claim 1, wherein said light-emitting module further includes
- a package having a CAN-type with a stem mounting said Peltier device with said laser diode thereon;
- a plurality of lead pins extending from said stem and connected to said substrate; and
- a thermistor disposed immediately by said laser diode on said Peltier device, said thermistor monitoring said temperature of said laser diode.
- 3. The light-transmitting module according to claim 2, wherein said heater is disposed in a side surface of said stem.
  - 4. The light-transmitting module according to claim 2, wherein said heater is disposed on said substrate so as to come in contact with a side surface of said stem.
    - 5. The light-transmitting module according to claim 2, wherein said heater is

disposed adjacent to said plurality of lead pins.

- 6. The light-transmitting module according to claim 1, wherein said light-emitting module further includes
  - a package having a box-shape with a pair of side walls and a rear wall;
  - a plurality of lead pins extending from respective side walls; and
- a thermistor disposed immediately by said laser diode on said Peltier device, said thermistor monitoring said temperature of said laser diode.
- 7. The light-transmitting module according to claim 6, wherein said heater is disposed on said substrate so as to come in contact with said side wall.
- 8. The light-transmitting module according to claim 6, wherein said heater is disposed on said substrate so as to come in contact with said rear wall.
- 9. The light-transmitting module according to claim 6, wherein said heater is provided in an outer surface of said housing located under said box-shaped package.
- 10. The light-transmitting module according to claim 1, wherein said heater is a thin film heater.
  - 11. The light-transmitting module according to claim 1, wherein said plurality of electronic elements includes a laser diode controller, a Peltier controller, and a heater controller.
    - 12. The light-transmitting module according to claim 11, wherein

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said laser diode controller controls said laser diode such that an optical output of said laser diode is maintained to be a predetermined value.

- 13. The light-transmitting module according to claim 12, wherein said heater controller compares an ambient temperature to a preset temperature of said laser diode and, when said preset temperature is higher than said ambient temperature, enables said heater.
- 14. The light-transmitting module according to claim 12, wherein said Peltier
  controller controls said Peltier device so as to set said laser diode to be a preset
  temperature.